

# Bed-Check® Model Vr Bed-Check® Sensormat®

An Outcome Based System

## User Manual



0163-440-A

**STANLEY**

**Bed-Check®**

Reducing the Risk of Falls Through Innovative Technology Since 1978



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# How The Bed-Check® (Outcome Based) System Can Work For You

## Introduction

The Bed-Check® Model Vr Control Unit's functions are accessible and programmable through a laptop or personal computer. The listings below describe the programmable functions of the Control Unit and the accessible statistics maintained by the Control Unit. You may refer to the Model Vr ACCESS Program's manual (CD) for further information.

## Programmed/Inputted Operating Characteristics

- Setup the Printer Port.
- Limit the external ability to set the Alarm Delay time in seconds to a range of 1 to 3 seconds versus a normal range of 1 to 9 seconds. (Reducing Alarm Delay can restrict manual programming functions.)
- Input Patient ID.
- Audible Reset Alarm can be enabled or disabled.
- Nurse call system - normally open or closed.
- Select the Tone Option and change the type of alarm sound to the one best suited for the patient.
- Select the Relay Action - type of electrical impulse needed by the nurse call system.
- Select the Hold Time in seconds before **MON**itoring begins, from 1 to 20 seconds.
- Alarm Delay time in seconds, from 1 to 9 seconds.
- Volume of the alarm.
- Define the Control Unit's operating Default settings for all of the above.
- Input the last Bio-Med Date of service.

## Printable Outcome-Based Information

### Unit Information:

- All of the above operating characteristics.
- Unit serial number and manufactured date.
- Total cumulative time the unit has been in service since inception.
- Date of the last Repair/Maintenance Authorization (RMA) and number by Bed-Check®.
- The last date the control unit was serviced by Bio-Med.

### **Patient's Information:**

- Patient's ID.
- Cumulative time the unit has been in service with the particular patient.
- The response times for the last twenty-four alarms.
- The average response time for the last four alarms.
- The last response time.
- Time and date of the last twenty-four alarms, and response times to the alarms.

### **Exportable Outcome-Based Information of Last 24 Alarms for Database/Spreadsheet Analysis**

- The exported file name will default to the patient ID.
- Date of each alarm.
- Time of each alarm.
- Response time to each alarm.

### **Reset Information**

- Reset the patient information to erase all.

### **Information Subject to Output to Printed Report or Computer File**

- Information that is depicted on the screen can be sent to the printer for assimilation with patient files or management reports;
- Information that is depicted on the screen can be sent to a text (\*.txt) file for later printing or export to a word processing program; and,
- Alarm history can be exported to a comma delimited file that can be imported into a spreadsheet (database) program.

Alternatively, the control unit can be put into service as it is shipped to you. You may choose to disregard and not utilize the programmable/printable features of the control unit.

The control unit's factory default settings are:

- 1) The tone option is set to a medium beep
- 2) The nurse call relay action is set to a normally open system
- 3) The hold delay time is set to 5 seconds
- 4) The alarm delay time is set to 3 seconds.

Bed-Check® will pre-set optional settings at the factory if requested at the time the order is placed. Contact your Distributor for more details.

For Manual Programming Please Refer to the *Model Vr Program Guide* (CD) and Appendix G therein or the section entitled *Manual Programming Guide* on page 9 of this manual.

## How To Use The System

The Bed-Check® system consists of a control unit, a power supply and a disposable pressure-sensitive Sensormat®, available in two sizes for use on either a standard hospital bed or a bed-side chair.

When the patient's weight on the Sensormat® ceases for a pre-selected number of seconds, the control unit activates two alarms (if selected): a call signal at the nursing station and an audible alarm in the patient's room. The nurse, having been alerted that a patient is attempting to exit the bed, can counsel the patient by intercom (if available), and simultaneously send immediate assistance.

### Sensormat®

To ensure effectiveness, place the Sensormat® across the width of the bed, **ON TOP OF THE MATTRESS**. The preferred Sensormat® location is directly under the patient's buttocks three to five inches below the bend in the mattress when the head of the bed is elevated. Effective operation of the Sensormat® in the alternative location, behind the patient's back, is dependent upon their weight and the articulation angle of the bed.

Note: Nursing personnel should test the system's effectiveness daily when either Sensormat® position is selected. Sensormats® may not be effective with air bed type mattresses, test before using.

To prevent slipping and to maintain the correct position of the Sensormat®, always use the enclosed rubber bands and metal clips.

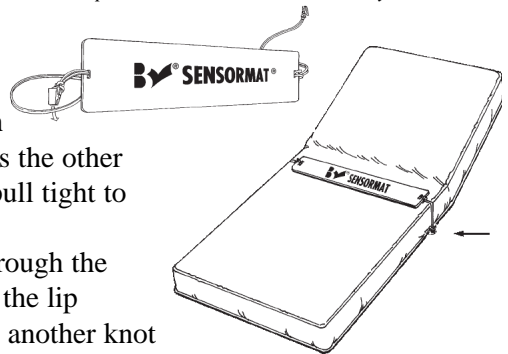
*Important: Use of Rubber Bands and clips keeps Mat in position and aids in serviceability*

- A. Thread one end of the band through the hole of the clip to form a loop. Pass the other end of the band through the loop and pull tight to form a knot at the base of the clip.
- B. Thread the other end of the band through the Sensormat® hole to form a loop. Bring the lip through the loop and pull tight to form another knot at the end of the Sensormat®. Repeat these steps on the other end of the mat.

C. Position Sensormat® across width of bed 3 inches to 5 inches below bend in mattress so it will be under the patient's buttocks.

D. Attach the clips to the piping at the bottom of the mattress on both sides of the bed or to the bed frame. The idea is to have the rubber bands taut so the Sensormat® does not slide back and forth over the mattress.

E. You may place over the Sensormat® a felt or incontinence pad, towel, draw sheet, rubber sheet, sheep skin or convoluted foam pad. Make the bed as usual.



## **WARNING**

**To ensure compatibility, the Model Vr control unit should be used only with Bed-Check® Sensormat® pressure sensitive mats. An alarm may sound when a damaged or incompatible mat is plugged into the control unit. The power supply must be unplugged from the unit or from the wall to cancel the alarm.**

**Always physically inspect the status of the control unit by viewing the illuminated indicators on the face of the control unit before leaving the patients room. If the control unit is in either HOLD mode, press the reset button to immediately begin monitoring and ensure the green monitor light is flashing. There is a possibility of the patient exiting the bed or chair during either HOLD period.**

The Sensormat® is effective for patients weighing 100 pounds or more. *For patients weighing under 100 pounds, test the effectiveness immediately upon installation with the patient in bed. Please be aware that the physiology of each patient is different. The functionality of the Sensormat® is impacted by the physics of the patient's weight and height.*

Plug the Sensormat® cord connector into the side of the control unit (Port designated "Sensormat®"). Sensormats® are available with 5 1/2 foot and 8 foot cords. If you are using the wire holster with control unit, 5 1/2 foot cords work best. Other cord lengths may be special ordered.

Nursing personnel should test the system daily for proper functioning. If the patient weighs 100 pounds or more, the nurse may test the system using just hand pressure on the Sensormat®. Lighter weights could possibly compromise system performance, and if the patient weighs less than 100 pounds, system function should be checked using the actual patient's presence in the bed. If the system does not perform properly, trying a different Sensormat® may resolve the problem.

# Control Unit

## Operation

The Bed-Check® Model Vr control unit provides the following indicators and functions:

**HOLD** - The yellow **HOLD** indicator is illuminated when the control unit is on and waiting to begin monitoring. When the **HOLD** indicator flashes, it indicates that there is weight on the Sensormat® and the Control unit will begin **MON**itoring after the preselected **HOLD** delay countdown. The **HOLD** delay countdown may be set from 1 to 20 seconds. We recommend 5 seconds.

There is a separate and distinct temporary 25 second hold time programmed into the Control Unit. When weight is on the Sensormat® (patient on the mat in bed or on the chair) and the Control Unit is **MON**itoring (green light), the caregiver may press the **RESET** button to put the system into temporary **HOLD** status (blinking yellow light) for servicing the patient. The unit will remain in this temporary **HOLD** status as long as weight stays on the Sensormat® for up to 25 seconds, and then will resume **MON**itoring. However, if any time during the 25 seconds weight is removed from the Sensormat®, this immediately puts the unit into permanent **HOLD** (steady yellow light). Once on permanent **HOLD**, the unit will begin the preselected **HOLD** delay countdown (e.g. 5 seconds) to **MON**itor only when weight is returned to the Sensormat®.

Note that in any **HOLD** mode, monitoring may be started immediately (no delay countdown) by pressing **RESET**, as long as weight is on the Sensormat®. **Always assure the green MONitor light is on before leaving the patient.**

The caregiver may adjust the patient/resident in bed, do local therapy, etc. during the (25 second) temporary **HOLD** period without setting off the alarm. If the Control Unit begins to again monitor and it is taking longer to care for or remove the patient/resident from the bed, press **RESET** again to renew the 25 second temporary **HOLD** time. If the care giver has completed the task and the control unit is still in the temporary (blinking) **HOLD** status, press **RESET** to immediately begin **MON**itoring before leaving the room.

**MON**itor - The green **MON** indicator is illuminated when the control unit is monitoring the patient. If the patient's weight is off the Sensormat® for the entire preselected delay, i.e. 3 seconds, the alarm will sound. If **RESET** is pressed while the **MON** indicator is active, the control unit will return to the **HOLD** mode. Please review the **HOLD** function above. A flashing **MON**itor indicator indicates that the unit is actively monitoring and that weight is off the Sensormat®, but the preselected alarm delay has not yet expired.



**ALARM** - The red **ALARM** indicator is illuminated when the control unit is alarming. The control unit will exit the alarm mode and enter the **HOLD** mode when the **RESET** button is pressed. The alarm delay time can be set within a range of 1 to 9 seconds. We recommend 3 seconds. The time delay should be set just long enough to allow patient movement in bed without generating false alarms.

The nurse call system must be physically reset in the patient's room after resetting the Control Unit in the event of an alarm.

**RESET** - This button is used to change the operating mode of the Control Unit. If the unit is in the **MON**itoring mode (weight is on the Sensormat®), pressing the **RESET** button will cause the Control Unit to enter a blinking **HOLD** (interim wait status) for 25 seconds. If weight is removed from the Sensormat® during the blinking **HOLD**, the Control Unit will begin a fixed **HOLD** status. If the unit is alarming, the **RESET** button will change the operating mode to the **HOLD** mode.

▲ - The up arrow on the face of the Control Unit will increment the delay time by one second each time it is pressed. If the delay is set to nine seconds, pressing the up arrow will change the delay to one second. This button is active during the **HOLD** mode and **MON** mode. The up arrow is inactive while the unit is alarming. The Control Unit can be internally set to limit the external cycling of the alarm delay to within a range of 1 to 3 seconds (please review the Model Vr Program Guide).

**Always press the RESET button to immediately begin monitoring before leaving the patient.**

### **Placement of the Control Unit**

Using the nylon Velcro® strap or optional holster, hang the Control Unit on the bed in a place that is out of the patient's reach and sight, but where it is readily accessible to the nursing personnel. Avoid unit placement in any area where it might come in contact with bodily fluids. If the patient can reach the Control Unit without moving off of the Sensormat®, relocate the Control Unit. The Control Unit, alternatively, can be placed in a Bed-Check® wire holster for placement on the back of the bed's headboard.

## **WARNING**

**Always physically inspect the status of the control unit by viewing the illuminated indicators on the face of the control unit before leaving the patient's room. If the control unit is in either HOLD mode, press the reset button to immediately begin monitoring and ensure the green monitor light is flashing. There is a possibility of the patient exiting the bed or chair during either HOLD period without causing the system to alarm.**

Plug the Control Unit's external power supply cord into the Control Unit (Port designated as "Power") first. Then plug the power supply into an AC wall outlet. **IF THE SENSORMAT® IS PLUGGED IN AND WEIGHT IS APPLIED TO THE SENSORMAT®, THE CONTROL UNIT WILL ALARM IF THE NURSE CALL CORD IS NOT PLUGGED INTO THE UNIT WHEN POWER IS SUPPLIED.** The Control Unit will ignore the absence or presence of the nurse call cord if the Relay Action is set to "no pullout protection". (Refer to the section entitled *Manual Programming Guide* on page 9 for more information.)

Connect the Control Unit's nurse call cord (phone style plug end) to the Control Unit (Port designated as "Nurse Call"). Plug the 1/4 inch phono style plug into the nurse call system. Some systems may require an adapter which may be purchased with your Bed-Check® System (For Details see the section entitled *Interfacing the Bed-Check® System with Your Nurse Call System* on page 14).

**The Control Unit and cords must be placed in such a location or manner in which it would not subject them to damage from moving bed parts or positioning of the bed. Do not position either component of the system such that it may cause one to pull against the other, causing stress to the connecting wire or its connecting plug.**

Once the patient is positioned properly on the Sensormat®, the yellow **HOLD** indicator will begin to flash. After a preset monitoring delay (the delay time is factory preset to 5 seconds) the Control Unit will begin monitoring automatically as indicated by the green **MON**itoring indicator. To bypass this delay, press the **RESET** button and immediate monitoring will be indicated by the green **MON**itoring indicator.

The Bed-Check® Control Unit, its power supply and the Bed-Check® Sensormat® have been tested and listed by a Nationally Recognized Testing Laboratory as a system, and have met all applicable FDA regulations. The Bed-Check® system is categorized as Nurse Call Accessory Equipment and is tested to UL® Standard 1069 by Edison Testing Labs (ETL), and CSA® 22.2 No. 205R.

# Manual Programming Guide

## Introduction

The Bed-Check® Model Vr offers a variety of features that may be manually programmed. The configuration information is retained in nonvolatile memory within the control unit. The configuration can be changed at any time. The non-volatile memory is also used to retain statistical data. This data may be accessed using a laptop or desktop computer and special software available from Bed-Check®.

Two methods are available for configuring the Model Vr:

1. Programming through the front panel of the Control Unit; and,
2. Programming with a personal computer.

Manual programming should only be performed when this manual is readily available as a guide.

## Manually Programmable Features

There are five user selectable features, each offering several options:

1. Alarm sound characteristic;
2. Nurse call system relay action - the type of electrical impulse required by the nurse call system;
3. Hold delay - time in seconds that elapses before **MON**itoring occurs;
4. Alarm delay - time in seconds that elapses from the moment the patient's weight is off the Sensormat® to the moment of an alarm; and,
5. Alarm volume

The alarm sound is selected from a list of seven possible options. This allows a facility to choose a sound which is distinctive from other equipment in use around the patient, to use particular sounds to prioritize patients relative to a particular patient's risk for fall or to avoid becoming tone deaf to a particular alarm by changing the tone periodically.

The Control Unit is shipped from the factory to operate with a normally open nurse call system. This is appropriate for the majority of nurse call systems. The Control Unit may be programmed to operate with a normally closed nurse call system using a personal computer. A particular nurse call system, whether normally open or normally closed, will require either a continuous pulse, a single pulse or repeated pulses to activate the nurse call system. The relay action option allows the Control Unit to be adapted to the particular nurse call installation. In addition, the “no pull-out protection” option may be selected if the Control Unit will not be plugged into a nurse call system. An alarm will also sound if there is a bad connection between the nurse call cord and the Control Unit.

The **HOLD** delay is factory preset to five seconds. The **HOLD** delay is the period of time that elapses from the moment that the patient’s weight is placed upon the Sensormat® and when the Control Unit automatically begins the **MON**itoring mode. Although five seconds will suffice for most facilities, there may be patients for which a different **HOLD** delay will work better, i.e. a particularly active patient may need a shorter delay while a patient who requires a lot of adjusting while being placed in bed may require a longer **HOLD** delay time. It is good practice to always press **RESET** when leaving the patient and not depend on the automatic **MON**itoring function.

The alarm volume may be adjusted to balance the needs of alerting the staff to a patient out of bed against the needs of nearby patients who may be affected by the alarm. The volume may be adjusted from zero to nine when programming through the front panel or zero to 31 when programmed via a personal computer. In either case, zero silences the alarm. A nine programmed from the front panel will yield the same volume as a 31 programmed from a personal computer. The only difference in the two methods is the granularity (resolution) available in arriving at or near an intermediate volume level.

## **Programming Through The Front Panel**


Programming the Model Vr Control Unit through the front panel should not be attempted until this entire section has been reviewed and you feel comfortable giving it a try. Programming of the Model Vr Control Unit through the front panel is not possible if the “3 second limit” delay option is active. This option must be disabled, using the programming with a personal computer option, before programming through the front panel is possible. To (re)program any individual feature you must begin at the beginning of the programming process; all of the steps for the entire programming process must be followed.

# Programming Procedure




Front panel of the Bed-Check® Model Vr Control Unit

Apply power to the Control Unit. It is not necessary to connect the nurse call cord or to connect a Sensormat®.

1. Use the up arrow button  on the face of the Control Unit to set the digital display to nine seconds.
2. Unplug the power supply from the Control Unit for several seconds.
3. While pressing the **RESET** button on the front panel, apply power to the Control Unit. Release the **RESET** button after all indicator lights on the right side of the front panel come on, and the unit beeps.


Note: All three indicator lights (**ALARM**, **MON**itoring, **HOLD**) should be lit at this time. If not, start over with step one.

4. You are ready to program the sound option. If you do not wish to change the sound, press **RESET** to skip this step and go to Step 5. To make a change: The numeric display on the left side of the front panel shows the current sound selection. Match the numeric display with the list below. Use the up arrow buttons  to change the number displayed and choose the desired sound from the list below. Once the appropriate number is displayed, press the **RESET** button, a beep will follow.

Sounds:

0. Fast Beep
1. Medium Beep
2. Slow Beep
3. Ring
4. Warble
5. Triple Tone
6. Music


The **ALARM** indicator should go out leaving the **MON**itoring and **HOLD** indicators lit.

5. If you do not want to change the relay action, press **RESET** to skip this step and go to Step 6. To set the appropriate relay action, use the up arrow button  on the front panel, select the number for the desired relay action from the list below. Press **RESET** when the correct number is displayed, a beep will follow.


Relay Option:

0. Continuous closure
1. Repeated pulses
2. One Shot
3. No pull-out protection (do not use/or no nurse call system)

The **MON**itoring indicator should go out and the **ALARM** and **HOLD** indicators should remain lit.

6. If you do not want to change the **HOLD** time, press **RESET** to skip this step and go to Step 7. Use the up arrow  to select the desired **HOLD** time. The **HOLD** time is adjustable from 1 to 9 seconds. Programming through a PC provides from 1 to 20 seconds **HOLD** time. This is the time in seconds that will elapse before the unit will automatically begin **MON**itoring. After selecting the desired **HOLD** time, press **RESET**, a beep will follow.


The **HOLD** indicator should go out and the **ALARM** and **MON**itoring indicators should remain lit.

7. If you do not wish to change the volume, press RESET to skip this step and go to Step 8. Use the up arrow button  to set the desired volume. The volume may be adjusted from zero to nine when programming through the front panel or zero to 31 when programmed via a personal computer. In either case, zero silences the alarm. A nine programmed from the front panel will yield the same volume as a 31 programmed from a personal computer.

If you have adjusted the volume, press RESET, a beep will follow.

8. Unplug the power supply from the unit for approx. 2 seconds.
9. Apply power to the control unit.

This ends the programming mode.

10. Adjust the delay using the arrow button  to an appropriate seconds value, typically three seconds. This is the time that will elapse from the moment that the patient's weight leaves the Sensormat and the alarm sounds. The range of options is 1 to 9 seconds.

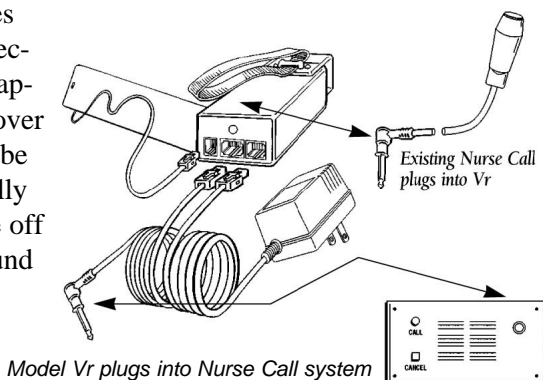
This unit is now programmed.

## Nurse Call Installation Instructions

The Bed-Check® Vr with Accessory Port performs the same functions as the standard Vr monitor, but does have a significant advantage for facilities with 1/4" input jacks.

The facility's existing Nurse Call cord is plugged directly into the Bed-Check® Vr monitor via the port in the bottom center of the monitor as shown below. The Bed-Check® Nurse Call cord, supplied with the unit, will then plug directly into the existing Nurse Call port and into the port designated "Nurse Call" on the unit. Always check the system before exiting the room.

The advantage of the unit is the elimination of an adaptor. Not hanging the adaptor and extra power cord saves space, possible confusion of connections, and the addition of basic adaptors that may be lost or damaged over time. The Nurse Call system may be utilized by the patient as is normally done, and should the patient move off the Sensormat®, the alarm will sound at the nurses station as is normal.



## Care and Maintenance

### CAUTION

**The Bed-Check® Control Unit may not be effective with another manufacturer's sensing device, the use of which may cause damage to the Bed-Check® Control Unit and will void the Bed-Check® warranty.**

**Danger of electrical shock. Never immerse the power supply or Control Unit in any liquid.**

If maintenance or opening of the Control Unit is required, it should be performed in a static-controlled (free) environment by qualified personnel.

The Control Unit and the Sensormat may be cleaned with a damp cloth or sponge using mild disinfectants. Never use alcohol, acidic or harsh petroleum based cleaners. If absolutely essential, the Control Unit may be gas sterilized up to 120° F.

## Interfacing with the Nurse Call System

The Bed-Check® Model Vr can be set for a normally open or normally closed nurse call system. The unit is factory preset to function with a normally open system. Please refer to the program manual.

The Control Unit uses a standard, two conductor, 1/4 inch phone plug, the most common type of nurse call connection. If your nurse call system does not provide a compatible input, contact Bed-Check® or your biomedical department to obtain the appropriate adapter.

If your facility does not have a biomedical department, please contact Bed-Check® at 1-800-523-7956. If requesting information on interfacing the Control Unit to a nurse call system, please have the following information available:

- The brand of your nurse call system.
- A description of the system's call cord or pillow speaker, including the type of plug and number of pins in the plug.
- Whether your nurse call system is normally open or normally closed.



## Troubleshooting

### **WARNING**

Test the system's operations daily. Failure to do so could result in injury or death.

#### **Problem: No alarm - Patient out of bed**

##### **Check:**

1. Are you using the Bed-Check® Sensormat® or another manufacturer's mat? A foreign mat will generally cause the Control Unit to alarm when it is plugged into the unit and power is on.
2. Did the patient get up during the preset HOLD period?
3. Is the Sensormat® bent through misplacement or handling? Is it functional - try another Sensormat®.
4. Is there an object putting pressure on the Sensormat® simulating the patient's weight?
5. Is there power to the unit?

#### **Problem: Control Unit alarms during set up**

##### **Check:**

1. Is the connector between the Sensormat® and Control Unit snapped in properly?
2. Has the cord been pulled from the Sensormat® or its connector?
3. Is the mat a Bed-Check® Sensormat®?
4. If the unit is programmed for a nurse call cord (pull out protected), verify that the cord is plugged into the unit.

#### **Problem: Alarm triggered - Patient in bed**

##### **Check:**

1. Is the Control Unit programmed to send a signal to the nurse call system and the nurse call cord is not plugged into the Control Unit?
2. Is the Sensormat® placed beneath the patient's buttocks, or if used behind the back, is the patient of sufficient weight and the bed properly adjusted?
3. Has the Sensormat® slipped toward the end of the bed because the rubber bands and clips were not used to secure the Sensormat® into position beneath the patient's buttocks?
4. Is the connector between the Sensormat® and Control Unit snapped in properly?
5. Is the time delay set too low for the patient's level of activity?

6. If the patient weighs less than 100 pounds, has the system been tested with that patient?
7. Did the patient get up and return to bed upon hearing the alarm?
8. Has the Sensormat® cord been pulled out or damaged (check moving bed parts)?

**Problem: Room alarm triggered - No call at nursing station**

**-or-**

**Nurse call will not turn off after an alarm**

**Check:**

1. Is the nurse call plug firmly connected to the patient station or adapter?
2. Is the call cord or pillow speaker firmly connected to the patient station or adapter?
3. Is the adapter firmly connected to the patient station?
4. Was the Control Unit reset after an alarm before the nurse call system alarm was canceled?
5. Is the Control Unit programmed to have "No Pull Out Protection"? If so, a signal will not be sent to the nurse call system.
6. Has the nurse call adapter been tested for proper functioning?
7. Is the mat a Bed-Check® Sensormat®?

## **LIMITED WARRANTY:**

### **BED-CHECK® CONTROL UNITS**

#### **1. WARRANTOR:**

This Limited Warranty is given by Bed-Check®, 1620 N 20th Cir, Lincoln, NE 68503.

#### **2. DURATION:**

This Limited Warranty begins on the date the product is delivered to the purchaser and continues for a period of two years (new units) or one year (refurbished units).

#### **3. TO WHOM THIS LIMITED WARRANTY IS GIVEN:**

This Limited Warranty is given to the original purchaser of Bed-Check's® products only.

#### **4. PRODUCTS COVERED:**

This Limited Warranty covers all Bed-Check® Control Units. (i.e. Model Vr, Classic-Check, Chair-Check II, and Basic-Check)

#### **5. WHAT IS COVERED UNDER THIS LIMITED WARRANTY:**

Defects in material and workmanship which occur within the defined duration of this limited warranty.

Warrantor makes no other warranties expressed or implied, including without limitation, warrantor makes no warranty as to merchantability or fitness for a particular purpose.

#### **6. WHAT IS NOT COVERED UNDER THIS LIMITED WARRANTY:**

a) ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE CONTROL UNITS.

b) ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM USE OF THE CONTROL UNITS WITH ANOTHER MANUFACTURER'S PRESSURE SENSITIVE MAT, SENSING DEVICE, OR OTHER FALL PREVENTION PRODUCT.

**NOTE: SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.**

c) Any defects or damage to the Control Units that may result from use of the Control Units with another manufacturer's parts, pressure sensitive mat, sensing device, or other fall prevention product.

d) Any failure that results from an accident, purchaser's abuse, neglect or failure to operate the Control Units in accordance with the instructions provided in the owner's manual(s) supplied with the Control Units.

e) Any Control Units which have the serial numbers altered, defaced or removed.

f) Any Control Units which have been altered or modified in any way without the express written consent of Bed-Check®.

g) Any Control Units which have been repaired other than by Bed-Check®.

#### **7. RESPONSIBILITIES OF WARRANTOR UNDER THIS LIMITED WARRANTY:**

a) In the event of a defect, malfunction, or other failure of the product not caused by any misuse or damage to the product while in the possession of purchaser, the warrantor will remedy the failure or defect without charge to the purchaser within a reasonable time. The remedy will consist of repair or replacement of the product, or refund of the purchase price, at the warrantor's option. If the product is no longer available, warrantor will supply purchaser with a comparable product or refund the purchase price at warrantor's option. However, the warrantor will not elect refund unless it is unable to provide replacement, and repair is not commercially practicable and cannot be made within a reasonable time, or unless the purchaser is willing to accept such refund. b) If this product or one of its component parts contains a defect or malfunction, after a reasonable number of attempts by the warrantor to remedy the defects or malfunctions, the purchaser will be entitled to either a refund or replacement of the product or its component part or parts. Replacement of a component part includes its free installation.

#### **8. RESPONSIBILITIES OF THE PURCHASER UNDER THIS LIMITED WARRANTY:**

a) Disinfect the Control Unit, if necessary, so that it is reasonably free from infectious matter.

b) Package the Control Unit with a minimum of two inches of shock absorbent packaging material. Deliver or ship the Control Unit to Bed-Check®. Freight costs, if any, must be borne by the purchaser.

c) Use the Control Unit with reasonable care and in accordance with the supplied owner's manual.

**THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.**

## **LIMITED WARRANTY**

### **BED-CHECK® SENSORMATS®**

#### **1. WARRANTOR:**

This Limited Warranty is given by Bed-Check®, 1620 N 20th Cir, Lincoln, NE 68503.

#### **2. DURATION:**

This Limited Warranty begins on the date the product is delivered to the purchaser and continues for a period of one year or for the duration of the warranty stated on the Sensormat® label from the date first installed, whichever comes first.

#### **3. TO WHOM THIS LIMITED WARRANTY IS GIVEN:**

This Limited Warranty is given to the original purchaser of Bed-Check's® products only.

#### **4. PRODUCTS COVERED:**

This Limited Warranty covers all Bed-Check® Sensormats®.

#### **5. WHAT IS COVERED UNDER THIS LIMITED WARRANTY:**

Defects in material and workmanship which occur within the period described in paragraph 2. Warrantor makes no other warranties expressed or implied, including without limitation, warrantor makes no warranty as to merchantability or fitness for a particular purpose.

#### **6. WHAT IS NOT COVERED UNDER THIS LIMITED WARRANTY:**

a) ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE SENSORMAT® ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM USE OF THE SENSORMAT® WITH ANOTHER MANUFACTURER'S CONTROL UNIT OR OTHER FALL PREVENTION PRODUCT.

**NOTE: SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.**

b) Any defects or damage to the Sensormat® that may result from use of the Sensormat® with another manufacturer's parts, control unit, or other fall prevention product.

c) Any failure that results from an accident, purchaser's abuse, neglect or failure to operate the Sensormat® in accordance with the instructions provided on the Sensormat® label.

d) Any Sensormat® which has the serial numbers altered, defaced or removed.

e) Any Sensormat® which has been altered or modified in any way without the express written consent of Bed-Check®.

f) Any Sensormat® which has been repaired other than by Bed-Check®.

#### **7. RESPONSIBILITIES OF WARRANTOR UNDER THIS LIMITED WARRANTY:**

a) In the event of a defect, malfunction, or other failure of the product not caused by any misuse or damage to the product while in the possession of purchaser, the warrantor will remedy the failure or defect without charge to the purchaser within a reasonable time. The remedy will consist of repair or replacement of the product, or refund of the purchase price, at the warrantor's option. If the product is no longer available, warrantor will supply purchaser with a comparable product or refund the purchase price at warrantor's option. However, the warrantor will not elect refund unless it is unable to provide replacement, and repair is not commercially practicable and cannot be made within a reasonable time, or unless the purchaser is willing to accept such refund.

b) If this product or one of its component parts contains a defect or malfunction, after a reasonable number of attempts by the warrantor to remedy the defects or malfunctions, the purchaser will be entitled to either a refund or replacement of the product or its component part or parts. Replacement of a component part includes its free installation.

#### **8. RESPONSIBILITIES OF THE PURCHASER UNDER THIS LIMITED WARRANTY:**

a) Disinfect the Sensormat®, if necessary, so that it is reasonably free from infectious matter.

b) Package the Sensormat® unfolded and in a flat position. Deliver or ship the Sensormat® to Bed-Check®. Freight costs, if any, must be borne by the purchaser.

c) Use the Sensormat® with reasonable care and in accordance with the supplied owner's manual.

**THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.**

**▲ WARNING**

**This monitor may not be compatible with mats manufactured by companies other than Bed-Check®. Use of incompatible mats may result in injury or death, and voids the product warranty.**

## **Important Notice**

### **Date and Time Retention on the Vr During Extended Shelf Storage**

In a continuing effort to increase product reliability, Bed-Check® has included a state of the art memory backup system intended to last the life of the product. The system avoids the problems associated with battery failure and leakage by utilizing a high value electrolytic capacitor as a power source. This capacitor is maintenance free but does require system power input every 30 to 60 days to maintain the “Date & Time” data. The recommended recharge time is 2.5 hours for a full charge. If this information is lost however, the unit will automatically reload the information from the host PC during set up for the next patient. This is an automatic, transparent function and requires no user input to ensure that the information has been fully updated.

**STANLEY**



**Bed-Check®**

**Mailing Address: PO Box 80238, Lincoln, NE 68501-0238**

**Shipping Address: 1620 N 20th Cir Lincoln, NE 68503-1103**

**1-800-523-7956**

**[www.bedcheck.com](http://www.bedcheck.com)**

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